IRRIGATION MASTER KEY

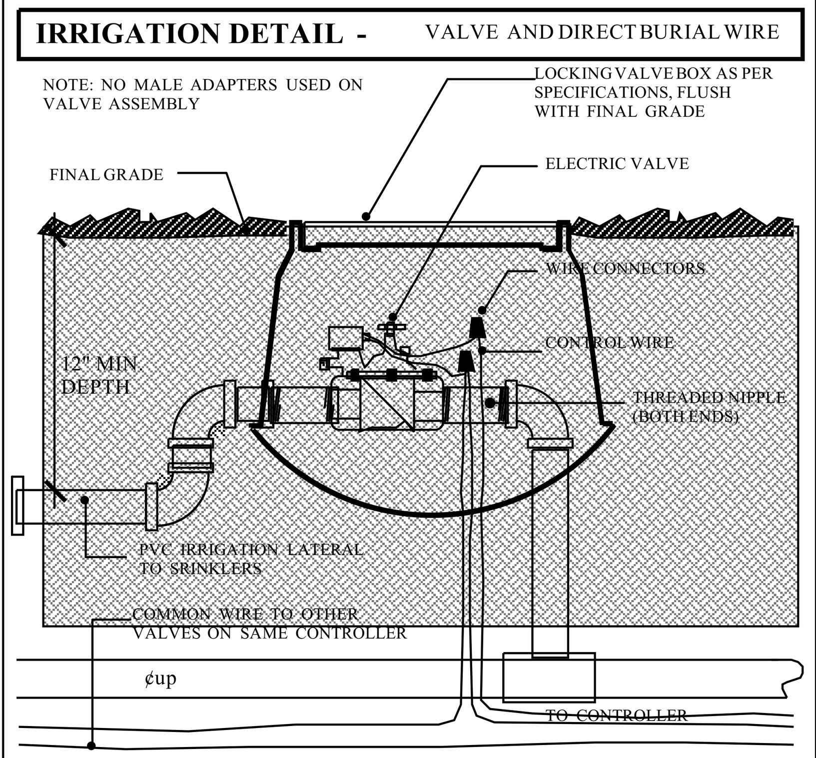
KEY	NO.	CODE	ITEM DESCRIPTION	INSTALLATION SPEC.
		SLV LINE NOTE	**SLEEVES** IN THIS CONTRACT Sleeves under roadways and driveways shall be SCH-40 Sleeves under sidewalks can be CLASS 160 PVC Install as per details and specifications.	Each sleeve shall be a minimum of two sizes larger than lateral pipe enclosed and each crossing shall include separate electrical conduit sleeves. All sleeves under pavement or roads shall be a minimum of 24" below the top of paving to the top of the sleeve and under walks at 12" below grade. Irrigation contractor shall supply and place sleeves, and be responsible for their locations. Sleeving shall be installed at the most logical locations to avoid underground utilities and structures. Sleeving locations shall be considered shematic on irrigation plans. The GC shall backfill and pave as required. No rock shall be in contact with PVC sleeves. All Asphalt base compaction and paving shall be made by the Paving Contractor on the job.
C	00C17	CON	**IRRIGATION CONTROLLER** **HUNTER** ICC QTY.-1 4 Zone Electromechanical controller. Add zone modules as needed. Controller will be installed as part of the pump station wihin pump enclosure. Contractor shall provide electrical service to pump station. Electrical hook-up provided by GC's electrician on site. Irrigation Contractor to coordinate with GC / Electrician.	Contractor shall mark stations on the controller panel to correspond with the zone numbers on this plan and set operating sequence to correspond with the numbering.
		CONTR NOTE	IRRIGATION CONTRACTOR **UTILITIES** ABOVE AND BELOW GROUND.	Contractors shall be responsible for the location and verification of all overhead and underground utilities. Contractor shall coordinate with all of the appropriate agencies to verify utilities in the field. Contractor shall be responsible for the protection and maintenance and any damage to existing utilities and structures that may occur in the implementation of the scope of work within this project. CONTRACTORS MUST USE THE NEW STANDARD SCHEDULE OF COLORS DESIGNATED FOR MARKINGS ON THE GROUND 1994 edition
X	00V11	VALVE BOX	**VALVE COVER BOX** - AMETEK Heavy Duty Box with Locking Covers, **JVB-10 Box 10" Dia.**	All valve assemblies to be installed below grade shall include AMETEK valve boxes with a 2" layer of drainage gravel as clean dry ballast for a bottom. Install top of box flush with surrounding grade, grass or mulch depending on location. Group valve assemblies so they are accessible with the correct size box. Any substitutions must be approved by landscape architect by providing sample or product information for review and written approval.
	70A	Head	**RAINBIRD 1800 SERIES, XP and VAN SERIES** 1806-PRS 6" POP-UP 3/4 HDS FULL **Low Gallon Nozzles** 1/4 HDS 1/2 HDS HEADS 2.5' 4',5', 6', 8',10',12',15' Raduis **RAINBIRD SPECIAL PATTERN SERIES** **SST, EST**	All heads in tall shrub beds shall be mounted on sch. 160 12" risers painted krylon jungle green. Contractor shall adjust head spray to eliminate over spray of water onto structure walls, driveways, and walkways.
		HEAD NOTE	**GENERAL HEAD NOTE** **ALL HEAD LOCATIONS SHOWN ON PLANS ARE SCHEMATIC**	Contractor to maintain 100% coverage with minimum 50% overlap when minor head location changes are necessary due to field conditions. Install adjustable angle nozzles where needed."All heads in open grass areas to be mounted on poly pipe swing joints. Heads in shrub areas shall be installed on SCH 160 risers raised to 6" above plant height, and with PVC SCH 160 swing joint assemblies below grade. Risers taller than 24" above grade shall be staked for support. All risers shall be fitted with shrub adapters and appropriate nozzles. All risers shall be painted with Krylon Jungle Green or equal.
RS X		RAIN sensor	**"MINI CLIK"** RAIN SENSOR MODEL 502 QTY- 1 TO BE INSTALLED BY IRRIGATION CONTRACTOR IN AN EASILY ACCESSIBLE POSITION FREE OF OVERHEAD OBSTRUCTIONS	"MINI CLIK" Mount the Mini Clik PER MANUFACTURER'S SPECIFICATIONS . Each system shall have it's own individual rain sensor. Contractor is responsible for a fully operational system from timeclock to location of the sensor.

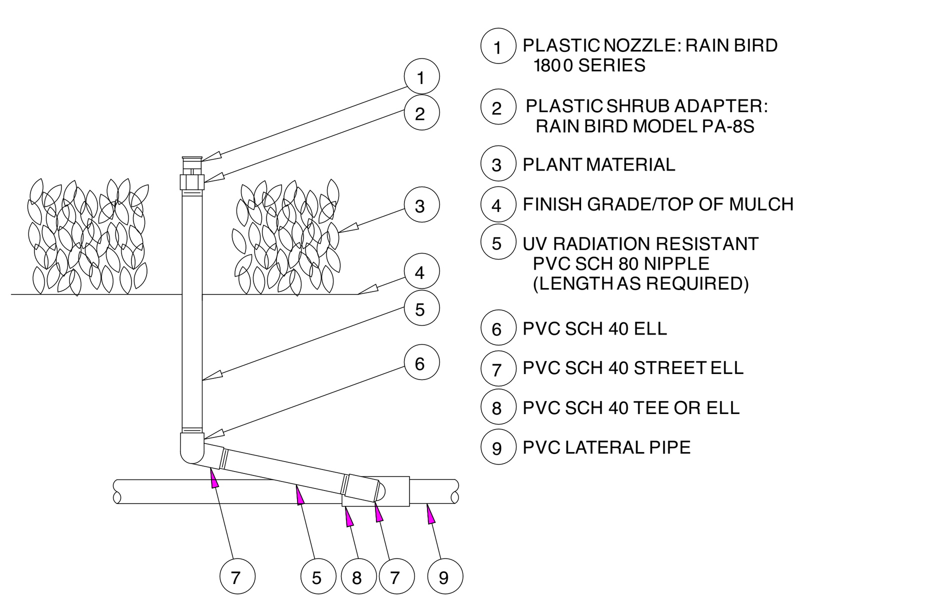
IRRIGATION MASTER KEY

KEY	NO.	CODE	ITEM DESCRIPTION	INSTALLATION SPEC.
	00V1	WIRE LOW VOLT	**Control wires** for 24V Automatic Valves, shall be installed by Irrigation Contractor. Wire shall be sleeved in minimum 1" SCH 40 electrical conduit buried a minimum of 24". Contractor shall run (2) spare control wires and (1) one spare common wire to the furthest ends of system in each direction. Common wire shall be grey or green, while the control wires shall each be a different color..	All irrigation control wires shall be U. L. approved 24V solid copper wire. Wires shall operate 24V automatic sprinkler valves and enter the box from below. Hot and spare wires to be AWG size 14 gauge and common wires to be AWG white size 12 gauge. Number 14 wire to be color coded separately with dark colors. Multistrand cable shall only be used between the controller and the first splice pit and shall not exceed 20 feet. No splices between valves: All splicing shall be done in valve boxes only All splices made with 3MBDY wire connectors. All valve box locations to be approved by the land.arch. all valve boxes set level w/grade.
	00V1A	MASTER VALVE	**Irritrol Series 700 or Series 100** Use Angle configuration **3" valves for zones to GPM volumes 171-300** **2" valves for zones to GPM volumes 71-170** **1.5" valves for zones to GPM volumes 41-70** **1" valves for zones to GPM volumes btwn 10-40**	boxes to be placed upon a 2" layer of gravel . All valves assembled with Sch. 80 All Valves shall be installed in a separate AMETEK valve box . All valve PVC nipples shall be used in place of male adapters. Top stem of valve assembly to be 6" below cap of valve cover box. This valve shall be used as the job standard. Valve controlling each Zone as well as use as the Master Control Valve for applicable plans. All valve box locations to be approved by the Landscpe Architect. All boxes to be set level with grade.
		PIPE GEN NOTE	**LATERAL PIPE** All New Pipe and Fittings. Size as noted in plans.	3/4" Pipe to be **Class 200.** All other lateral pipe to be **Class 160,** except where ground is rocky; in rocky ground **SCH 40** pipe will be used. **Class 200/160** will be protected on all sides with at least 6" of clean, debris-free builders sand. All laterals to be placed 12" minimum below grade. All lateral pipe under pavement to be sleeved. **No lateral installed shall be less than 3/4".**
		PIPE GEN NOTE	**MAIN & LATERALS** MAINLINE SHALL NOT BE UNDER PRESSURE WHILE THE SYSTEM IS NOT IN OPERATION.	**Unless specifically detailed All PIPING locations shown on plans are schematic .** Contractor to adjust trenching in field for existing conditions, plantings and structures. Install pipes clear of hedge rows and tree rootballs. Irrigation contractor is responsible to adjust lines at his own expense if not coordinated with all other work. All piping shall be bed in clean fill per Florida Building Code 2001 and back fill all trenches free of debris. Mechanical trenchers are acceptable except in drainage swales and utility areas which shall be hand dug and backfilled to original grade. **CONTRACTOR ADJUSTMENTS DOES NOT WARRANT ADDITIONAL COSTS BASED ON BASE BID.**
		PIPE GEN NOTE	**MAIN & LATERALS BACKFILLING**	Ground Level Areas: The sub-contractor shall do all necessary excavating and backfilling required for the proper installation of the work. Minimum depth of cover over piping shall be 12 inches. Backfill material shall be clean fill. If existing material has an excess of rock, then clean sand must be used. In rocky areas, use Sch. 40 PVC, or the trenching depth shall be two inches below normal trench depth to allow for a 2 inch bed of sand below the pipe. There shall be NO rock in contact with PVC pipe. The sub-contractor shall use backfilling equipment that will tamp backfill to its original density. He shall barricade or light the excavation to prevent hazards to the public. Objectionable materials such as old concrete, asphalt, limerock and bricks that are encountered during working operations, shall be removed from the project by the sub-contractor. Sub contractor shall be responsible to locate any above or underground utilities prior to starting work. If utilities are found to be in conflict with the proposed work the Owner or owner's agent shall be notified immediately.
X		MAIN LINE NOTE	**1-1/4" DEAD END MAIN LINE** **ALL MAINLINE PIPE SHALL BE SDR-26 CLASS 160 SOLVENT WELD OR CLASS 200 O-RING PVC PIPE** **THRUST LINES SHALL BE SDR CLASS 200 FOR 3/4" AND 1" LINES AND SDR 26 CLASS 160 FOR ALL LINES 1-1/4" AND ABOVE 1/2" PIPE SHALL NOT BE USED EXCEPT FOR SHRUBS RISERS AND SHALL THEN BE SCHG-40 PVC. ALL PIPING SHALL BE SIZED SO AS NOT TO EXCEED A VELOCITY OF 5 FPS.**	**MAIN LINES LOCATION IS SHOWN SCHEMATICALLY.** Where ever possible, lateral lines are to be buried in common trench with main line. All wires shall be run under mains for protection . All Mains shall be buried at minimum 18" depth. Mains should run deeper at road crossings. All pipe and fitting materials shall be new. All pipe to be cut squarely and burrs removed. All P.V.C. Mainline 4" and larger to be assembled with use of HARCO Gasketed fittings and poured concrete thrust blocks as per man. specifications.
M	00M6	WM	NEW 1" WATER METER WATTS 1" REDUCED PRESSURE ZONE ASSEMBLY CONNECT TO EXISTING RECLAIMED WATER SOURCE Meter supplied by County or City. Verify requirements for installation **(if needed)** **Contractor shall install a Backflow Prevention Device and supply appropriate equipment per city requirements if existing equipment does not meet code requirements.**	" See plans for location. Irrigation contractor shall begin at the point of meter to step up to the size service main called for in plans. If an Backflow Prevention Device is not already in place or is not required, Contractor shall supply and install equipment as required to meet local Install a Brass Gate Valve, size to match meter size, as the beginning of main to supply the sprinkler system. "

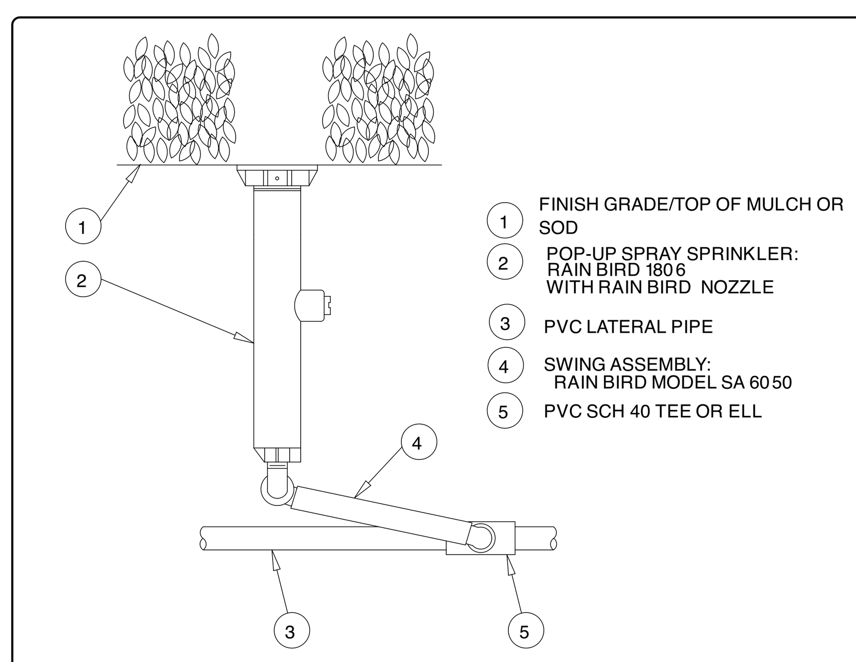
IRRIGATION DETAIL - VALVE AND DIRECT BURIAL WIRE

NOTE: NO MALE ADAPTERS USED ON VALVE ASSEMBLY



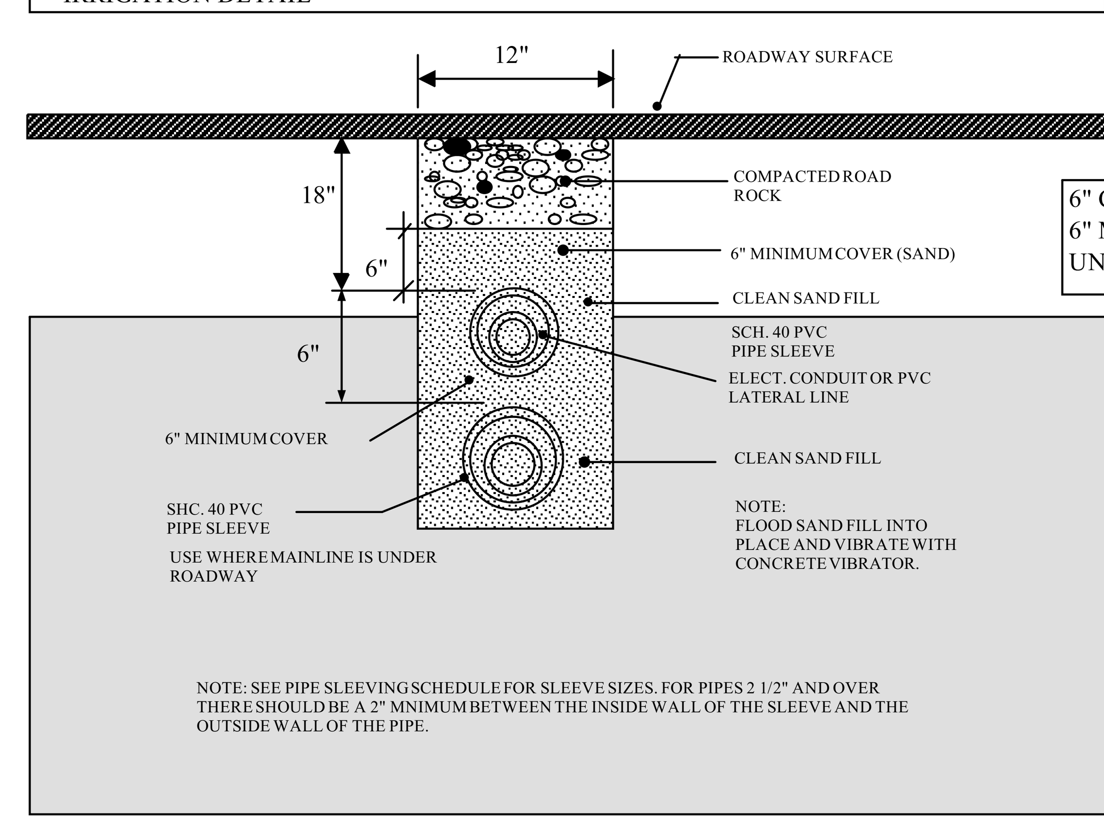


1800 NOZZLE ON RISER WITH SWING JOINT
N.T.S.



POP-UP SPRAY SPRINKLER 4-13-04
N.T.S. 1806 WITH SWING PIPE

IRRIGATION DETAIL - PIPE AND CONDUIT ACROSS ROADWAYS



NOTE: SEE PIPE SLEEVING SCHEDULE FOR SLEEVE SIZES. FOR PIPES 2 1/2" AND OVER THERE SHOULD BE A 2" MNIMUM BETWEEN THE INSIDE WALL OF THE SLEEVE AND THE OUTSIDE WALL OF THE PIPE.

6" COMPACTED ROCK
6" MIN. COMPACTED SAND
UNDER CONCRETE WALKWAYS.

LA-6666695 ISA-0827A
1016 ne 45th street
oakland park, fl. 33334
tel. 954-763-4071
954-763-1047
e - mlagroupinc@yahoo.com
mlagroupinc.com
landscape architecture

REVISIONS:

SHEET TITLE:
IRRIGATION DETAILS AND SPECIFICATIONS

PROJECT:
NEW RESTAURANT
TAHA MARINE CENTER
3109-3135 E ATLANTIC BLVD.
POMPANO BEACH, FL 33062

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SEAL:
james McClure
Digitally signed by james McClure
Date: 2021.01.27 00:09:33 -05'00'

DATE DRAWN: 11/24/20

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